

Title (en)  
FUNCTIONAL POLYMER MEMBRANE, PRODUCTION METHOD THEREOF, AND STACK OR DEVICE PROVIDED WITH THE SAME

Title (de)  
FUNKTIONELLE POLYMERMEMBRAN, HERSTELLUNGSVERFAHREN DAFÜR UND STAPEL ODER VORRICHTUNG MIT DERSELBEN

Title (fr)  
MEMBRANE POLYMÈRE FONCTIONNELLE, PROCÉDÉ DE PRODUCTION ASSOCIÉ, ET EMPILEMENT OU DISPOSITIF LA COMPRENANT

Publication  
**EP 3181619 A1 20170621 (EN)**

Application  
**EP 15832469 A 20150722**

Priority

- JP 2014165309 A 20140814
- JP 2015119497 A 20150612
- JP 2015070807 W 20150722

Abstract (en)  
This polymer functional film comprises a surface layer and a negative ion exchange membrane or positive ion exchange membrane, and the surface layer contains a polymer that includes a cross-linked structure having, in the cross-linking portion, an ionic group of the charge opposite of the charge of the ionic group of at least the negative ion exchange membrane or positive ion exchange membrane. Also provided are a method of producing said polymer functional film, and a stack or device provided with said polymer functional film.

IPC 8 full level  
**C08J 5/22** (2006.01); **B01D 61/46** (2006.01); **B01D 71/28** (2006.01); **B01D 71/40** (2006.01); **B01J 39/20** (2006.01); **B01J 41/14** (2006.01); **B01J 47/12** (2017.01)

CPC (source: EP US)  
**B01D 53/228** (2013.01 - US); **B01D 61/025** (2013.01 - US); **B01D 61/461** (2022.08 - US); **B01D 69/1214** (2022.08 - US); **B01D 71/40** (2013.01 - EP); **B01D 71/401** (2022.08 - US); **B01D 71/82** (2013.01 - EP US); **B01J 39/20** (2013.01 - US); **B01J 41/14** (2013.01 - US); **B01J 47/12** (2013.01 - US); **C08J 5/22** (2013.01 - US); **C08J 5/2275** (2013.01 - US); **C08J 5/2287** (2013.01 - EP US); **B01D 69/12** (2013.01 - EP); **B01D 2323/30** (2013.01 - EP US); **B01D 2325/42** (2013.01 - EP US); **C08J 2325/18** (2013.01 - EP US); **C08J 2333/24** (2013.01 - EP US); **C08J 2335/00** (2013.01 - US)

Cited by  
WO2021038186A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
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DOCDB simple family (publication)  
**EP 3181619 A1 20170621**; **EP 3181619 A4 20170816**; CN 106574063 A 20170419; CN 106574063 B 20190924; JP 6351128 B2 20180704; JP WO2016024464 A1 20170720; US 2017152361 A1 20170601; WO 2016024464 A1 20160218

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